

**TAG: Learning Set 1.8**  
**Explore – Road Rally**

Name \_\_\_\_\_  
Hour \_\_\_\_\_ Date \_\_\_\_\_

**The Physics Triple Play**

Read pp. 65-66. Describe each of the following competitions.

Race to the Finish:



Road Rally:

**Our group will participate in the following competition: \_\_\_\_\_**

Read pp. 68-69 "Plan Your Road Rally." Remember to Follow the directions for Making Your Prediction.

Write your Procedure for predicting the distance from the finish line that the starting point (ramp) should be positioned so that the coaster car will cross the finish line at a specific time.

**Procedure**

Step	
1	
2	
3	
4	
5	
6	
7	

CAR #: \_\_\_\_\_

Distance	Time
	Average:

CAR #: \_\_\_\_\_

Distance	Time
	Average:

CAR #: \_\_\_\_\_

Distance	Time
	Average:

CAR #: \_\_\_\_\_

Distance	Time
	Average:

**Predictions:**

	Predicted Ramp Placement	Observations/Results
Car #		
Car #		
Car #		
Car #		

**Winning Coaster Car:** \_\_\_\_\_

**Reflect**

1. Describe how well your prediction matched the outcomes of your event.

2. How could you have improved your prediction? Are there other factors that you should have taken into account?

3. What else do you need to learn about motion or forces to be able to better predict a car's performance?

**Update the Project Board** with your class: columns "What we are learning" and "What is our Evidence."